

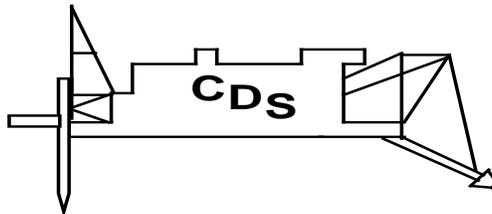
47th
DREDGING
ENGINEERING
SHORT COURSE

January 8 - 12, 2018



Sponsored by
CENTER FOR DREDGING STUDIES
DEPARTMENT OF OCEAN ENGINEERING
COLLEGE OF ENGINEERING

TEXAS A&M UNIVERSITY



47th DREDGING ENGINEERING SHORT COURSE

Brief Description

The dredging engineering short course is taught on the Texas A&M University campus in College Station, Texas and includes a mixture of lectures, laboratories, and a panel. The course is administered by the Center for Dredging Studies, Department of Ocean Engineering. Two textbooks and course notes on all lecture material are provided. A certificate and continuing education units (~3.0 CEUs) are earned.

Monday, January 8, 2018 (8:00 a.m. - 5:15 p.m.)

*HISTORY OF DREDGING; DREDGING EQUIPMENT
FLUID MECHANICS; CENTRIFUGAL PUMPS; PUMP CAVITATION
PUMP PERFORMANCE CHARACTERISTICS AND DREDGE INSTRUMENTATION
SEDIMENT TRANSPORT IN PIPES
GEOTECHNICAL MECHANICS; PHYSICAL AND ENGINEERING PROPERTIES; DIKE DESIGN
MECHANICAL DREDGES; SEDIMENT RESUSPENSION
ENVIRONMENTAL CLAMSHELL DREDGING*

Aubeny, Bergeron, Figlus, Hayes, Mohan, Perlin, Randall

TEXAS BBQ DINNER (Monday Evening, 6:30 - 8:30 p.m.)

Tuesday, January 9, 2018 (8:00 a.m. - 5:15 p.m.)

*BEACH NOURISHMENT
BASIC DREDGE LAWS
PRACTICAL DREDGE HYDRAULICS
SMALL HYDRAULIC DREDGES
CUTTERS AND CUTTER SUCTION DREDGE OPERATION
HOPPER DREDGES AND DREDGE CONTROL SYSTEMS
DREDGING GROUP PROJECT EXERCISE; DREDGING & GEOTECHNICAL LAB*

Aubeny, deJong, Edge, Mohan, Randall, Wetta

Wednesday, January 10, 2018 (8:00 a.m. - 5:15 p.m.)

*FATE OF DREDGED MATERIAL PLACED IN OPEN WATER
NUMERICAL MODELS FOR PREDICTING THE FATE OF DREDGED MATERIAL
DREDGING SAFETY
TECHNICAL INPUTS TO DREDGING ESTIMATES
DREDGE MONITORING
ADVANCES IN HYDROGRAPHIC SURVEYING
GEOTEXTILE CONTAINER SYSTEMS
DREDGING GROUP PROJECT EXERCISE; DREDGING & GEOTECHNICAL LAB*

Allen, Aubeny, Edge, Gailani, Mohan, Ramsdell, Randall, Ransome

Thursday, January 11, 2018 (8:00 a.m. - 5:15 p.m.)

*SUBAQUEOUS CAPPING
CONFINED DISPOSAL OF DREDGED MATERIAL
ECOSYSTEM RESTORATION USING DREDGING AND DEWATERING OF DREDGED MATERIAL
DREDGED MATERIAL TESTING MANUALS AND EVALUATION OF TESTING RESULTS
CANADIAN EXPERIENCES IN MANAGING CONTAMINATED SEDIMENTS
EPA AND THE ENVIRONMENTAL ASPECTS OF DREDGED MATERIAL DISPOSAL
ENVIRONMENTAL DREDGING – CURRENT PRACTICE AND LESSONS LEARNED
ENVIRONMENTAL QUESTION AND ANSWER PANEL
DREDGING GROUP PROJECT EXERCISE; DREDGING & GEOTECHNICAL LAB*

Aubeny, Mohan, Palermo, Randall, Santiago, Suedel, Vogt

BANQUET (Thursday Evening, 6:30 - 8:30 p.m.)

Friday, January 12, 2018 (8:00 a.m. - 12:00 p.m.)

*ENGINEERING WITH NATURE
CHEMICAL TREATMENT OF DREDGED SOLIDS
DEWATERING AND SEDIMENT SEPARATION
DREDGE PERMITTING AND PROJECT MANAGEMENT
ESTIMATING DREDGING COSTS
BENEFICIAL USES OF DREDGED MATERIAL
CERTIFICATE PRESENTATION*

Jamieson, Mohan, Randall, Suedel, Tichenor

Convenient Bryan/College Station Lodging

- CAVALRY COURT, 200 Century Court, College Station, TX, 77840; 979.229.9090
- COMFORT SUITES, 907 University Dr. East, College Station, TX 77840; 979.268.5500
- FAIRFIELD INN & SUITES, 4613 Texas Ave. S., College Station, TX 77840; 979.268.1552
- HAMPTON INN, 302 Texas Ave. S., College Station, TX 77840; 979.846.0184
- HAWTHORN SUITES, 1010 University Dr. E., College Station, TX 77840; 979.695.9500
- HILTON HOTEL, 801 University Dr. E., College Station, TX 77840; 979.693.7500
- HOLIDAY INN EXPRESS, 1203 University Dr. E., College Station, TX 77840; 979.846.8700
- HOMEWOOD SUITES, 950 University Dr. E., College Station, TX 77840; 979.846.0400
- HYATT PLACE, 1100 University Dr. E., College Station, TX 77840, 979.846.9800
- RESIDENCE INN BY MARRIOTT, 720 University Dr. E, College Station, TX, 77840, 979.268.2200
- SUPER 8 MOTEL, 301 Texas Ave. S., College Station, TX; 979.846.8800

Airlines:

AMERICAN EAGLE - Connection from Dallas (DFW)

UNITED - Connection from Houston (IAH)

Airport in College Station: Easterwood Airport (CLL)

INSTRUCTIONAL STAFF

Visiting Staff

BRENDA ALLEN, U.S. Army Corps of Engineers, Mobile District, Mobile, AL

RAY BERGERON, President, Cable Arm Inc., Trenton, MI; B.S. and M.S., Western Michigan University.

PETER S. DEJONG, President, Digital Automation & Control Systems, Inc., Houston, TX; B.S., Technical College of Zwolle; M.S., Delft University; M.B.A., Northwestern University.

JOSEPH Z. GAILANI, Research Hydraulic Engineer, Coastal and Hydraulics Laboratory, Engineering Research and Development Center, Vicksburg, MS; B.S. and M.S., Northwestern University; Ph.D., University of California at Santa Barbara.

T. JAMIESON, Tri-Flo International, Inc., Conroe, TX.

DONALD F. HAYES, Professor and Chair, Department of Civil Engineering, University of Nevada Las Vegas; B.S. and M.S., Mississippi State University; Ph.D., Colorado State University; P.E.

MICHAEL R. PALERMO, Michael Palermo Consulting, Raleigh, NC; B.S. and M.S., Mississippi State University; Ph.D., Vanderbilt University; P.E.

ROBERT RAMSDELL, Production Engineering Manager, Great Lakes Dredge and Dock, Oak Brook, IL.

CHRIS R. RANSOME, President, CRA, Inc., Houston, TX; B.Sc., University of Southampton, UK; M.Sc., University of Durham, UK.

ROGER SANTIAGO, Head, Sediment Remediation Unit, Remediation Technologies Program, Environment Canada, Downsview, Ontario, Canada; B.E.S., University of Waterloo.

BURTON SUEDEL, Research Biologist, Engineering Research and Development Center, Vicksburg, MS; B.S. North Texas State University, M.S. University of North Texas, Ph.D. University of Mississippi.

GEORGE TICHENOR, SNF Corporation, Riceboro, GA.

CRAIG VOGT, Consultant, Woodbridge, VA; B.S. and M.S., Oregon State University; P.E.

WILLIAM J. WETTA II, President and CEO, Dredging Supply Company, Reserve, Louisiana; B.S., Louisiana State University; P.E.

Texas A&M University Staff

CHARLES P. AUBENY, Professor of Civil Engineering, Construction, Geotechnical & Structural Division, Zachry Department of Civil Engineering; B.S., University of Arizona; M.S., University of Colorado; Ph.D., Massachusetts Institute of Technology; P.E.

BILLY L. EDGE, Professor Emeritus, Coastal and Ocean Engineering Division, Zachry Department of Civil Engineering; B.S. and M.S., Virginia Polytechnic Institute; Ph.D., Georgia Institute of Technology; P.E.

JENS FIGLUS, Assistant Professor, Department of Ocean Engineering; Dipl.-Ing University of Karlsruhe, MCE and Ph.D., University of Delaware.

RAM K. MOHAN, Adjunct Professor, Short Course Director, Department of Ocean Engineering; Senior Partner, ANCHOR QEA, LLC.; B.S., Cochin University of Science & Technology; M.S., University of Rhode Island; Ph.D., Texas A&M University; P.E.

MARC PERLIN, Professor & Assoc. Department Head, Department of Ocean Engineering, B.S. Drexel University, M.C.E., University of Delaware, Ph.D. University of Florida: P.E.

ROBERT E. RANDALL, Professor, Department of Ocean Engineering; B.S., Ohio State; M.S. and Ph.D., University of Rhode Island; P.E.

ENROLLMENT APPLICATION
47th DREDGING ENGINEERING SHORT COURSE
JANUARY 8 - 12, 2018

(Please Print Legibly or Type)

Name: Last First M.I.

Position / Title

Employer / Company Name

Street Address or Mailing Address

City State Country Zip Code

Telephone Fax Email Address

Course Fee: \$1500 (includes textbook, lecture notes, banquet and local transportation).

Enrollment: Advance enrollment by December 1, 2017 is required and may be made by individuals or companies. Please pay course fee by credit card (<https://engineering.tamu.edu/ocean/research/center-for-dredging-studies>) or mail payment of \$1500 by check or money order payable to "Texas A&M University" in US dollars and drawn on a US bank. Bank wire transfer or a US government training form is also acceptable forms of payment. **NO CANCELLATIONS** will be granted **AFTER DECEMBER 1, 2017**

Application Deadline: December 1, 2017

Payment Made Payable to: TEXAS A&M UNIVERSITY

Mail Application to: Dr. Ram K. Mohan
 Center for Dredging Studies
 Department of Ocean Engineering
 Texas A&M University
 College Station, TX 77843-3136

Questions & Information:

Dr. Ram Mohan, Course Director

Tel: 215-756-5030; Email: rkmohan16@hotmail.com

Web Site: <https://engineering.tamu.edu/ocean/research/center-for-dredging-studies>

Dr. Robert Randall, Director Emeritus

Tel: 979-845-4568; Email: r-randall@tamu.edu

Robyn Wright, Business Assistant

Tel: 979-845-4586; Fax: 979-862-8162; Email: rwright@tamu.edu